CSA 0976 programming in java

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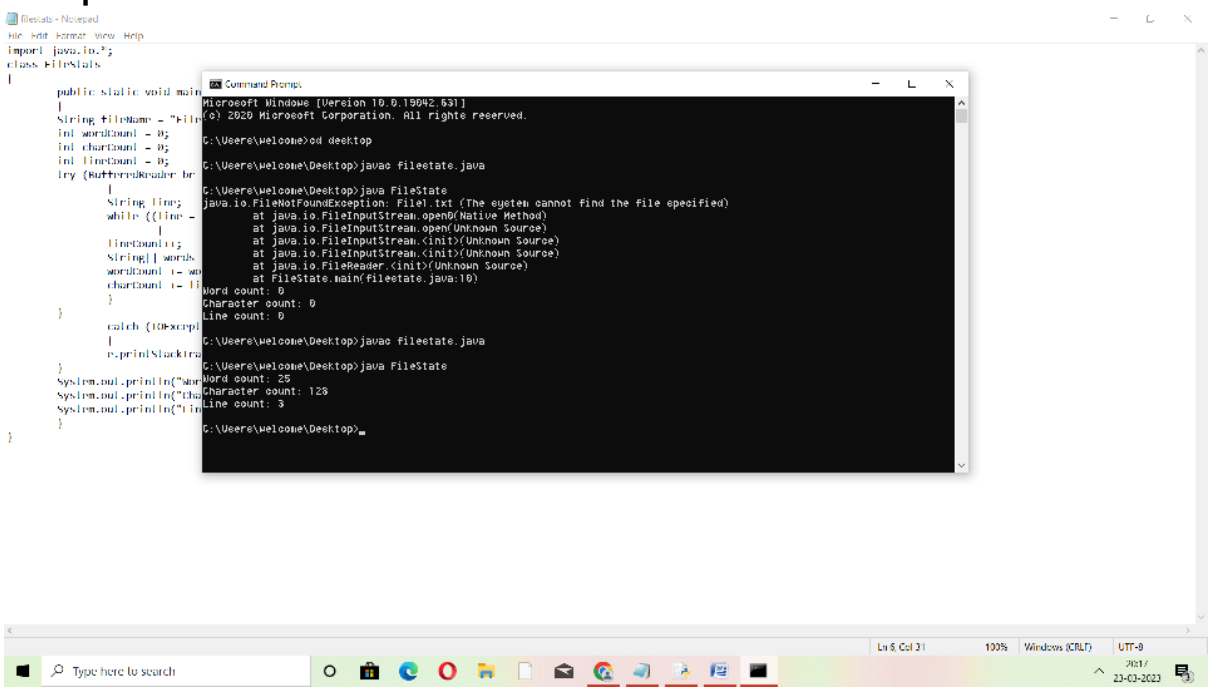
Assignment 4

1.Code:

```
import java.io.*;
class FileStats
{
	public static void main(String[] args)
	{
	String fileName = "File1.txt";
	int wordCount = 0;
	int charCount = 0;
	int lineCount = 0;
	try (BufferedReaderbr = new BufferedReader(new
FileReader(fileName)))
		{
		String line;
		while ((line = br.readLine()) != null)
			{
		lineCount++;
		String[] words = line.split("\\s+");
		wordCount += words.length;
		charCount += line.length();
		}
	}
		catch (IOException e)
```

```
            {
                e.printStackTrace();
            }
            System.out.println("Word count: " + wordCount);
            System.out.println("Character count: " + charCount);
            System.out.println("Line count: " + lineCount);
            }
}
```

Output:



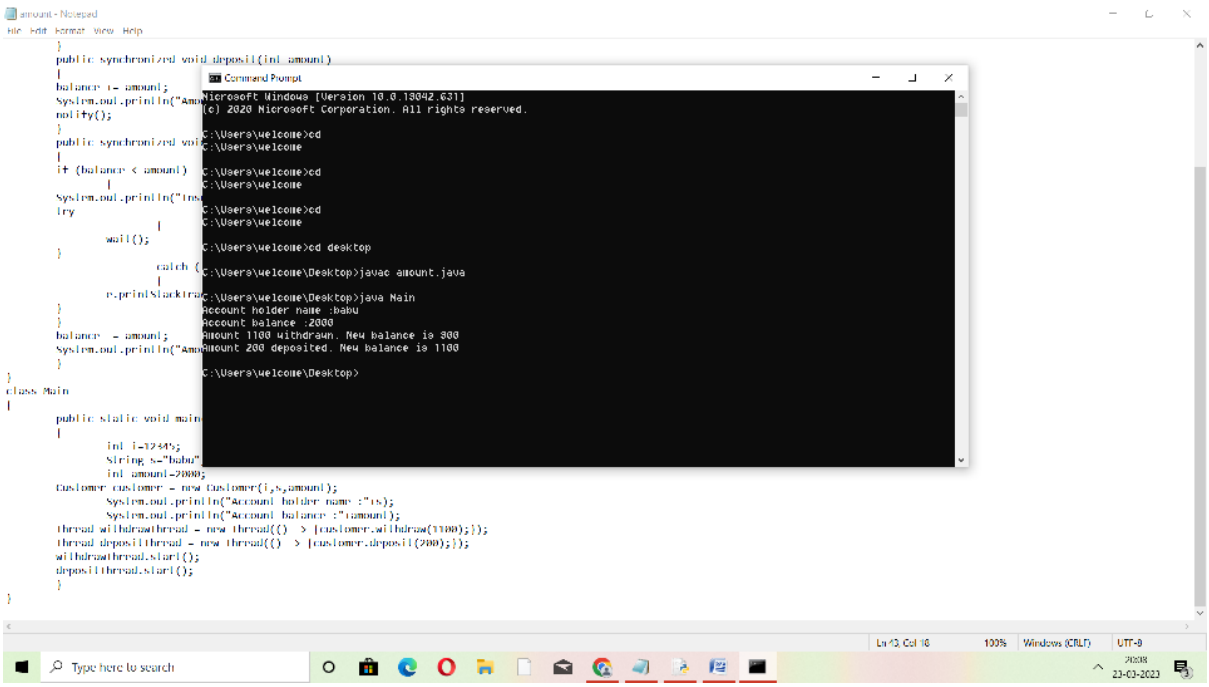
2.Code:

```
import java.io.*;
class Customer
{
        private int accountNo;
        private String accName;
```

```
	private int balance;
	public Customer(int accountNo, String accName, int balance)
	{
	this.accountNo = accountNo;
	this.accName = accName;
	this.balance = balance;
	}
	public synchronized void deposit(int amount)
	{
	balance += amount;
	System.out.println("Amount " + amount + " deposited. New balance
is " + balance);
	notify();
	}
	public synchronized void withdraw(int amount)
	{
	if (balance < amount)
		{
	System.out.println("Insufficient balance. Waiting for deposit...");
	try
			{
		wait();
	}
			catch (InterruptedException e)
			{
		e.printStackTrace();
	}
	}
```

```
        balance -= amount;
        System.out.println("Amount " + amount + " withdrawn. New
balance is " + balance);
        }
}
class Main
{
        public static void main(String[] args)
        {
                int i=12345;
                String s="Saran";
                int amount=1000;
        Customer customer = new Customer(i,s,amount);
                System.out.println("Account holder name :"+s);
                System.out.println("Account balance :"+amount);
        Thread withdrawThread = new Thread(() ->
{customer.withdraw(1100);});
        Thread depositThread = new Thread(() ->
{customer.deposit(200);});
        withdrawThread.start();
        depositThread.start();
        }
}
```

Output:

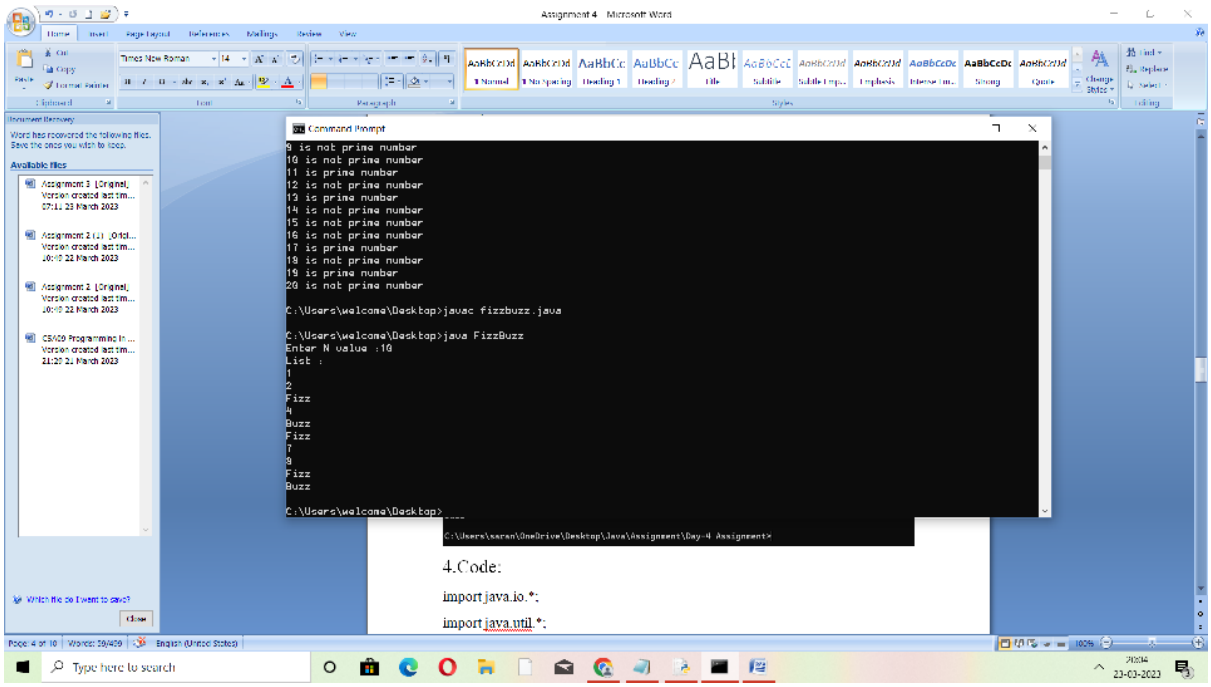


3.Code:

```
import java.io.*;
import java.util.*;
class FizzBuzz
{
	public static void main(String arg[])
	{
		int i;
		String a[]=new String[1000];
		Scanner s=new Scanner(System.in);
		System.out.print("Enter N value :");
		i=s.nextInt();
		for(int j=1;j<=i;j++)
		{
			if(j%3==0 && j%5==0)
			{
```

```
                    a[j-1]="FizzBuzz";
                }
                else if(j%3==0)
                {
                    a[j]="Fizz";
                }
                else if(j%5==0)
                {
                    a[j]="Buzz";
                }
                else
                {
                    a[j]=Integer.toString(j);
                }
            }
            System.out.println("List :");
            for(int j=1;j<=i;j++)
            {
                System.out.println(a[j]);
            }
        }
}
```

Output:

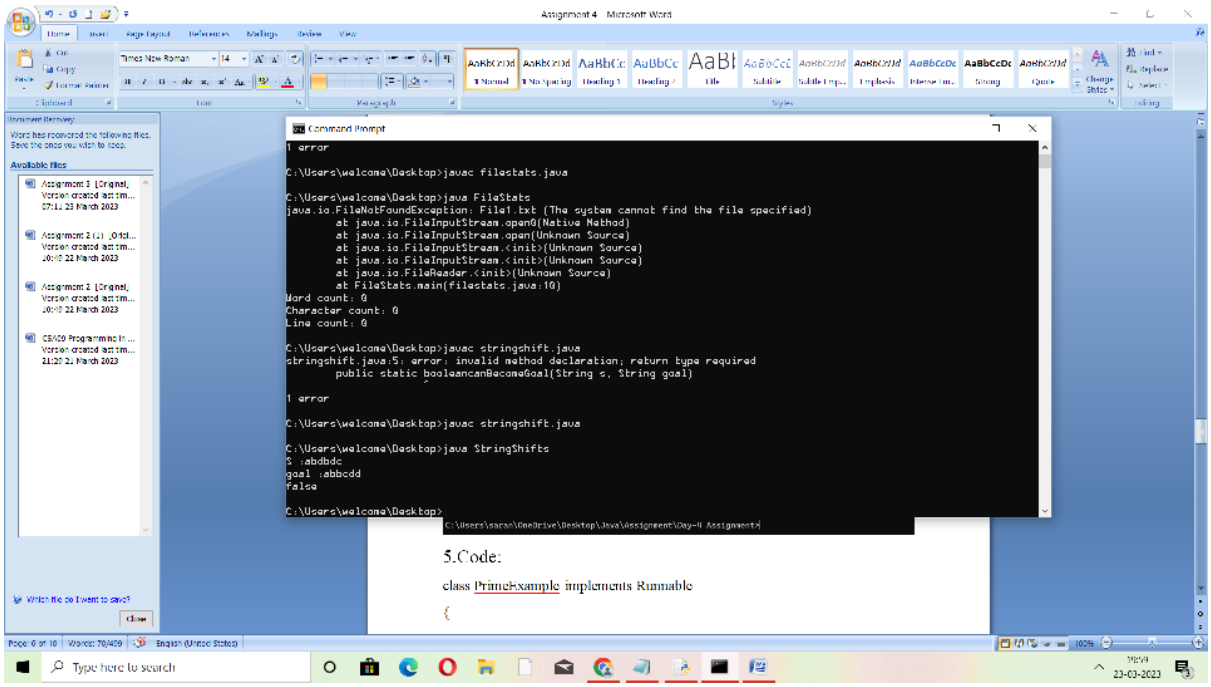


4.Code:

```
import java.io.*;
import java.util.*;
class StringShifts
{
	public static booleancanBecomeGoal(String s, String goal)
	{
	if (s.length() != goal.length())
		{
	return false;
	}
	for (int i = 0; i<s.length(); i++)
		{
	if (s.equals(goal))
			{
		return true;
```

```
        }
        s = s.substring(1) + s.charAt(0);
        }
        return false;
        }
        public static void main(String[] args)
        {
        String s1;
        String goal;
                Scanner s=new Scanner(System.in);
                System.out.print("S :");
                s1=s.nextLine();
                System.out.print("goal :");
                goal=s.nextLine();
        System.out.println(canBecomeGoal(s1, goal)); // false
        }
}
```

Output:



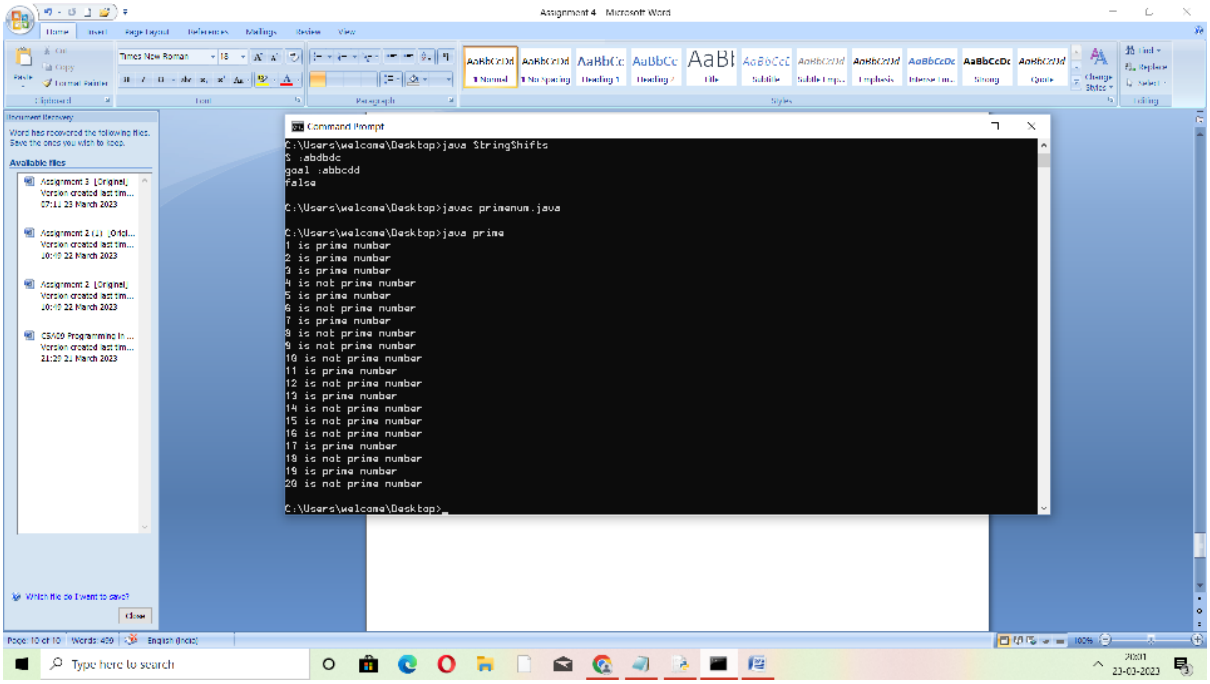
5.Code:

```
class PrimeExample implements Runnable
{
        @Override
        public void run()
        {
                int i, m = 20, flag = 1;
                for (i = 1; i<= m; i++)
                {
                if (i<= 3)
                        {
                        System.out.println(i + " is prime number");
                        continue;
                }
                        else
```

```
                {
                flag = 1;
                for (int j = 2; j <i; j++)
                        {
                        if (i % j == 0)
                                {
                        flag = 0;
                        break;
                        }
                }
                if (flag != 1)
                        {
                        System.out.println(i + " is not prime number");
                }
                        else
                        {
                        System.out.println(i + " is prime number");
                }
        }
        }
    }
}
class prime
{
    public static void main(String args[])
    {
        try
```

```
            {
            PrimeExample p1 = new PrimeExample();
            Thread t1 = new Thread(p1);
            t1.start();
            }
            catch (Exception e)
            {
            System.out.println(e.getMessage());
            }
        }
}
```

Output:


Assignment 4 - Microsoft Word
Command Prompt
C:\Users\welcome\Desktop>java StringShifts
$:abdbdc
goal :abbcdd
false
C:\Users\welcome\Desktop>javac primenum.java
C:\Users\welcome\Desktop>java prime
1 is prime number
2 is prime number
3 is prime number
4 is not prime number
5 is prime number
6 is not prime number
7 is prime number
8 is not prime number
9 is not prime number
10 is not prime number
11 is prime number
12 is not prime number
13 is prime number
14 is not prime number
15 is not prime number
16 is not prime number
17 is prime number
18 is not prime number
19 is prime number
20 is not prime number
C:\Users\welcome\Desktop>
Type here to search